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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Defense Counterintelligence and Security Agency **Date:** February 2020

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 8: Software and Digital Technology Pilot Programs</i>	R-1 Program Element (Number/Name) PE 0608197V / <i>National Background Investigation Services - Software Pilot Program</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	121.676	-	121.676	124.587	127.330	129.371	131.966	Continuing	Continuing
000: <i>National Background Investigation Services - Software Pilot Program</i>	0.000	0.000	0.000	121.676	-	121.676	124.587	127.330	129.371	131.966	Continuing	Continuing

Note

This effort is not a new start in FY2021. It continues FY2020 development effort funded in PE 0303430K, Federal Investigative Services Information Technology.

A. Mission Description and Budget Item Justification

The Defense Counterintelligence and Security Agency acquires, develops, and deploys software and manages digital talent to support the development of a modernized Federal Government background investigation information technology (IT) systems(s) to replace the current legacy IT systems formerly the responsibility of the Office of Personnel Management (OPM) and provide a highly secured infrastructure. DoD assumed modernization efforts beginning in FY 2017, as decided by the Interagency Deputies Committee and the Office of Management and Budget (OMB). Funds support the development, sustainment, technical refresh of hardware and software, Cloud migration, and program management costs to develop and field a modernized Federal Investigation System. This modernized capability's data architecture will leverage and extend the existing secure Information Technology capabilities inherent to DoD infrastructure to the federal wide background investigation processes and data archives. This approach will provide essential security of this information and in turn protect the identities, lives, and livelihoods of these people, and the family members and associates identified as part of these records. The aim is to avert or eliminate the continuous and dynamic threat of identity theft, financial espionage and other attacks on this personal information, while providing a secure basis for background investigations necessary to Federal and DoD operations.

Using proven data architecture and identifiable security, DCSA will leverage critical and inherent information technology (IT) security capabilities; identify means and methods to efficiently and securely access digital services; enhance systems necessary to operate the background investigation processes and associated vast reservoirs of data and interfaces; provide Government-wide tools to assist agencies with workforce management; and, develop and provide investigative products that comply with the new, Federal Investigations Standards and Workforce 2.0. Resources will be used to implement and sustain agency network upgrades and security software maintenance to ensure a stronger, more reliable, and better protected network architecture for conducting background investigations. Costs include program management activities, payroll for security specialists, engineers, data architects, and business process management activities to develop, test, and deploy the new capability. As capabilities are fielded NBIS and DCSA will provide system maintenance, security licenses and operational support to the system and users worldwide.

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B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	121.676	-	121.676
Total Adjustments	0.000	0.000	121.676	-	121.676
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Establishment of Software Pilot Program	0.000	0.000	121.676	-	121.676

Change Summary Explanation

Supports execution of software development, procurement, modification, and operations and maintenance using RDT&E for pilot programs specified in BA 8.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Defense Counterintelligence and Security Agency **Date:** February 2020

Appropriation/Budget Activity 0400 / 8	R-1 Program Element (Number/Name) PE 0608197V / <i>National Background Investigation Services - Software Pilot Program</i>	Project (Number/Name) 000 / <i>National Background Investigation Services - Software Pilot Program</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
000: <i>National Background Investigation Services - Software Pilot Program</i>	0.000	0.000	0.000	121.676	-	121.676	124.587	127.330	129.371	131.966	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Counterintelligence and Security acquires, develops, and deploys software and manages digital talent. The system used for this is the National Background Investigation Services (NBIS) which supports the government-wide background investigation process; replacing the OPM's legacy systems that were breached in 2015. The objectives of NBIS enhances security, meets new policy requirements, reduces the backlog of pending cases, and realizes cost avoidance as legacy systems are retired. The system establishes and streamlines the requirements intake (software factory model), establish as a services approach, implements the DevSecOps pipeline, standardizes test processes, automates unit component, and integration testing, implements cyber processes to achieve continuous ATO, consolidates help desk activities, and enhances monitoring capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2019	FY 2020	FY 2021
Title: Software Pilot Program	-	-	121.676
<p>Description: The Defense Counterintelligence and Security acquires, develops, and deploys software and manages digital talent. The system used for this is the National Background Investigation Services (NBIS) which supports the government-wide background investigation process; replacing the OPM's legacy systems that were breached in 2015. The objectives of NBIS enhances security, meets new policy requirements, reduces the backlog of pending cases, and realizes cost avoidance as legacy systems are retired. The system establishes and streamlines the requirements intake (software factory model), establish as a services approach, implements the DevSecOps pipeline, standardizes test processes, automates unit component, and integration testing, implements cyber processes to achieve continuous ATO, consolidates help desk activities, and enhances monitoring capabilities.</p>			
<p>FY 2021 Plans: FY 2021 O&M Plans: \$83.176 NBIS will continue to provide support functions for DMDC capabilities that are running in the DISA Data Centers along with the COOP to ensure continuous operations in event of failure. NBIS will leverage programmatic, operations and support contracts to provide Program Control, Financial and Budget support as well as the Operations functions to support the Cloud environment and transition of existing and new services into the Gov Cloud environments. NBIS will provide travel, non-centralized training, credit card, supplies, new laptops, Joint Enterprise Licensing Agreement (JELA) costs, and common licensing costs that supports running a PEO and Program Office. Finally, in FY2021 NBIS will pay any residual moving costs required for the transition from the</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<p>DISA campus to a DCSA facility. Additionally, under Budget Authority (BA) 8, the previous BA4 funds will be capitalized to offset the shortfalls in the previous BA7 funds to continue development of the evolving Investigation Services.</p> <p>FY 2021 RDT&E Plans: \$38.500</p> <p>DoD will continue to develop, enhance and improve the capabilities. As part of an Agile development process, the National Background Investigation System (NBIS) will deploy additional releases in FY21 to improve automation of the background investigation process, improve analytics to address insider threat analysis, improve continuous evaluation capabilities, and develop capabilities to meet additional Federal Agency requirements (e.g., Trusted Workforce 2.0). The system will continue to defend against cyber-attacks and improve defensibility by meeting new and evolving threats. Specifically, NBIS will continue to support Investigation Management (IM) Development for automation, new models, rules engines, and algorithms for optimization of assignments (i.e., continuous development); continue evolving the automation of IT infrastructure and DevSecOps tools and processes; implement Security Enterprise Architecture and Data Services to develop the capability to re-use data and analytics across multiple security missions, all while, simplifying system security and user access; supporting business transformation and late-derived requirements, technology change management, and Tier support for the NBIS Customers; identifying, developing, and testing multiple prototype efforts; and continuing to evolve and execute the adjusted implementation strategy based on lessons learned from prototype efforts and results of independent assessments.</p> <p><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> The increase from FY 2020 to FY 2021 is due to the implementation of a pilot Budget Authority that combines the NBIS funding lines to better support the movement of Continual Evaluation (CE)/Continuous Vetting (CV) Compliance; Data Sources (CV Data Sources Connections); NBIS Application Development (eApp, NBIS Billing, IMT1 and Adjudication); and NBIS IT Infrastructure (Amazon Web Service (AWS) Gov Cloud and DevSecOps Pipeline) from development and testing to implementation and sustainment.</p>			
Accomplishments/Planned Programs Subtotals	-	-	121.676

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A